Eraring Power Station - EPA Licence 1429
Rocky Point Rd, Dora Creek NSW 2264

Environmental Monitoring Data May 2022



Unit 1A Boiler Continuous Emission Monitoring Summary

EPA Identification no.7 - Air emissions monitoring, Boiler 1 stack discharge to air
Unit 1A Out of Service 4 and 17 May 2022.
NOx Unit Out of Service 1-3 May 2022

	NOx			SO_2		
	mg/Nm³ (7% O_2)			mg/Nm³ (7% O_2)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 May	-	-	-	527	581	469
2 May	-	-	-	483	535	440
3 May	-	-	-	511	582	454
4 May	-	-	-	-	-	-
5 May	349	410	304	551	661	481
6 May	396	503	318	513	641	408
7 May	356	467	306	559	627	426
8 May	377	418	313	478	596	401
9 May	308	366	276	497	570	424
10 May	324	393	293	502	538	438
11 May	349	399	292	483	548	429
12 May	376	403	333	450	522	397
13 May	395	447	310	525	639	487
14 May	350	403	292	519	598	463
15 May	311	380	267	517	602	438
16 May	348	452	275	513	617	469
17 May	-	-	-	-	-	-
18 May	407	523	294	585	674	481
19 May	393	444	305	577	744	494
20 May	365	421	295	563	634	448
21 May	337	387	268	507	641	436
22 May	297	351	246	445	545	397
23 May	342	418	288	462	589	404
24 May	335	380	309	499	635	453
25 May	322	355	299	520	592	465
26 May	328	398	291	602	670	478
27 May	286	315	263	533	586	455
28 May	340	385	307	579	630	481
29 May	411	475	355	706	806	623
30 May	454	540	365	710	954	574
31 May	433	489	377	690	824	581

Unit 1B Boiler Continuous Emission Monitoring Summary

EPA Identification no.7 - Air emissions monitoring, Boiler 1 stack discharge to air
Unit 1B Out of Service 4, 13 and 16-17 May 2022.

	NOx			SO_2		
	mg/Nm^3 (7% O_2)			mg/Nm^3 (7% O_2)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 May	354	420	289	610	721	533
2 May	342	419	283	549	585	525
3 May	329	370	275	575	659	524
4 May	-	-	-	-	-	-
5 May	326	383	293	615	727	569
6 May	371	449	308	622	799	520
7 May	310	395	264	665	742	514
8 May	338	396	256	567	714	505
9 May	281	325	250	605	669	545
10 May	292	391	257	592	635	554
11 May	307	359	258	580	626	520
12 May	332	370	299	528	595	486
13 May	-	-	-	-	-	-
14 May	338	471	267	587	838	528
15 May	364	508	297	709	771	636
16 May	-	-	-	-	-	-
17 May	-	-	-	-	-	-
18 May	332	385	230	616	651	558
19 May	307	350	233	590	625	557
20 May	284	333	213	574	620	533
21 May	265	341	216	532	551	516
22 May	248	331	204	526	560	508
23 May	281	323	214	520	584	419
24 May	277	341	244	546	596	512
25 May	257	300	232	538	568	518
26 May	260	302	229	605	651	531
27 May	223	275	214	536	564	509
28 May	246	307	218	547	570	527
29 May	274	341	224	617	676	546
30 May	305	352	233	614	694	524
31 May	285	363	215	550	568	532

Unit 2A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 9 - Air emissions monitoring, Boiler 2 stack discharge to air
Unit 2A Out of Service 4-5 and 16-17 May 2022.
NOx Unit Out of Service 18-19 May 2022.

	NOx			SO_2		
	mg/Nm^3 (7% O_2)			mg/Nm^3 (7% O_2)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 May	359	426	314	511	607	456
2 May	358	455	277	485	502	460
3 May	368	456	305	480	509	442
4 May	-	-	-	-	-	-
5 May	-	-	-	-	-	-
6 May	332	378	299	566	707	468
7 May	342	389	305	631	848	459
8 May	353	405	315	528	644	458
9 May	339	408	291	541	603	470
10 May	310	382	264	518	551	479
11 May	349	430	275	531	565	462
12 May	368	419	323	486	558	446
13 May	420	486	305	490	526	462
14 May	389	494	336	503	549	456
15 May	380	426	346	547	585	504
16 May	-	-	-	-	-	-
17 May	-	-	-	-	-	-
18 May	-	-	-	530	599	498
19 May	-	-	-	518	542	492
20 May	360	425	285	530	567	505
21 May	326	408	268	499	538	451
22 May	333	456	247	465	494	424
23 May	400	458	338	475	508	457
24 May	354	449	252	473	528	362
25 May	347	443	288	488	507	468
26 May	326	406	258	521	592	464
27 May	341	402	268	469	488	456
28 May	381	486	310	462	501	426
29 May	312	415	232	548	630	468
30 May	335	426	247	573	644	519
31 May	354	490	243	507	538	481

Unit 2B Boiler Continuous Emission Monitoring Summary

EPA Identification no. 10 - Air emissions monitoring, Boiler 2 stack discharge to air
Unit 2B Out of Service 4 and 17-18 May 2022
NOx Unit Out of Service 5-7, 11-13, 15-16 and 21-27 May 2022

	NOx			SO_2		
	mg/Nm^3 (7% O_2)			mg/Nm^3 (7% O_2)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 May	308	386	256	444	554	371
2 May	293	331	240	413	457	355
3 May	295	330	240	399	445	351
4 May	-	-	-	-	-	-
5 May	-	-	-	482	597	402
6 May	-	-	-	474	576	366
7 May	-	-	-	519	713	386
8 May	280	318	257	449	583	378
9 May	271	297	231	450	532	375
10 May	259	299	222	441	494	386
11 May	-	-	-	420	491	338
12 May	-	-	-	388	438	340
13 May	-	-	-	365	468	317
14 May	304	357	272	398	449	361
15 May	-	-	-	451	490	397
16 May	-	-	-	395	488	337
17 May	-	-	-	-	-	-
18 May	-	-	-	-	-	-
19 May	266	294	242	408	503	350
20 May	245	265	229	404	483	359
21 May	-	-	-	423	489	366
22 May	-	-	-	384	452	331
23 May	-	-	-	368	426	325
24 May	-	-	-	403	464	313
25 May	-	-	-	403	455	343
26 May	-	-	-	404	529	299
27 May	-	-	-	365	460	317
28 May	270	319	240	355	400	312
29 May	260	283	220	480	610	370
30 May	275	382	198	489	585	369
31 May	256	298	197	389	492	311

Unit 3A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 11 - Air emissions monitoring, Boiler 3 stack discharge to air
Unit 3A Out of Service 14 and 21-31 May 2022
NOx Unit Out of Service 7-9, 11, 13 and 18 May 2022

	NOx			SO_2		
	mg/Nm³ (7% O_2)			mg/Nm³ (7% O_2)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 May	376	468	302	659	796	541
2 May	384	466	288	613	656	552
3 May	371	443	283	608	655	523
4 May	344	450	260	651	764	599
5 May	341	399	298	711	832	630
6 May	372	456	303	712	1014	599
7 May	-	-	-	765	882	592
8 May	-	-	-	673	786	598
9 May	-	-	-	764	937	679
10 May	299	400	232	642	712	586
11 May	-	-	-	647	703	587
12 May	410	495	322	597	683	544
13 May	-	-	-	599	750	515
14 May	-	-	-	-	-	-
15 May	384	490	334	654	685	626
16 May	452	612	327	592	680	563
17 May	425	544	331	629	721	569
18 May	-	-	-	709	829	632
19 May	449	564	320	664	714	604
20 May	427	531	361	648	677	620
21 May	-	-	-	-	-	-
22 May	-	-	-	-	-	-
23 May	-	-	-	-	-	-
24 May	-	-	-	-	-	-
25 May	-	-	-	-	-	-
26 May	-	-	-	-	-	-
27 May	-	-	-	-	-	-
28 May	-	-	-	-	-	-
29 May	-	-	-	-	-	-
30 May	-	-	-	-	-	-
31 May	-	-	-	-	-	-

Unit 3B Boiler Continuous Emission Monitoring Summary

EPA Identification no. 12 - Air emissions monitoring, Boiler 3 stack discharge to air
Unit 3B Out of Service 14, 22-31 May 2022
NOx Unit Out of Service 9-10 May 2022
SO_2 Unit Out of Service 1-3 and 15-17 May 2022

	NOx			SO_2		
	mg/Nm^3 (7% O_2)			mg/Nm^3 (7% O_2)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 May	320	430	265	-	-	-
2 May	327	408	280	-	-	-
3 May	334	420	279	-	-	-
4 May	327	419	272	556	668	513
5 May	305	347	269	601	695	548
6 May	324	417	268	595	804	521
7 May	326	366	281	651	716	510
8 May	331	400	283	552	647	480
9 May	-	-	-	638	741	573
10 May	-	-	-	564	610	532
11 May	332	458	243	567	605	547
12 May	368	442	302	514	590	474
13 May	400	487	252	526	635	465
14 May	-	-	-	-	-	-
15 May	343	467	295	-	-	-
16 May	400	562	304	-	-	-
17 May	369	492	297	-	-	-
18 May	382	511	273	591	641	549
19 May	409	536	294	573	602	542
20 May	406	502	307	557	585	537
21 May	387	472	208	524	560	206
22 May	-	-	-	-	-	-
23 May	-	-	-	-	-	-
24 May	-	-	-	-	-	-
25 May	-	-	-	-	-	-
26 May	-	-	-	-	-	-
27 May	-	-	-	-	-	-
28 May	-	-	-	-	-	-
29 May	-	-	-	-	-	-
30 May	-	-	-	-	-	-
31 May	-	-	-	-	-	-

Unit 4A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 13 - Air emissions monitoring, Boiler 4 stack discharge to air
Unit 4A Out of Service 26 May 2022 and 27 May 23:00 - 28 May 07:00
SO_2 Unit Out of Service 11-14 and 31 May 2022

	NOx			SO_2		
	mg/Nm^3 (7% O_2)			mg/Nm^3 (7% O_2)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 May	272	456	179	465	585	317
2 May	290	443	194	463	560	299
3 May	299	450	191	465	606	294
4 May	322	457	248	564	684	475
5 May	284	359	221	579	655	471
6 May	305	445	209	558	630	453
7 May	314	441	231	624	737	474
8 May	307	434	253	537	645	402
9 May	305	387	209	615	691	505
10 May	268	302	204	550	604	444
11 May	328	511	223	-	-	-
12 May	378	475	269	-	-	-
13 May	421	519	261	-	-	-
14 May	354	517	270	-	-	-
15 May	330	496	271	554	602	496
16 May	393	615	272	507	566	437
17 May	354	551	251	509	578	385
18 May	365	564	245	544	631	406
19 May	374	551	202	497	589	266
20 May	416	500	327	497	557	392
21 May	352	401	289	492	533	456
22 May	329	436	268	483	512	460
23 May	335	380	306	481	493	440
24 May	349	379	287	516	545	478
25 May	319	347	281	513	546	454
26 May	-	-	-	-	-	-
27 May	333	362	263	510	539	397
28 May	308	432	86	493	589	71
29 May	333	380	289	579	640	506
30 May	316	399	254	616	629	601
31 May	334	470	285	-	-	-

Unit 4B Boiler Continuous Emission Monitoring Summary

EPA Identification no. 14 – Air emissions monitoring, Boiler 4 stack discharge to air
Unit 4B Out of Service 1-19 and 26 May 2022 and 27 May 23:00 - 28 May 07:00

	NOx			SO_2		
	mg/Nm^3 (7% O_2)			mg/Nm^3 (7% O_2)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 May	-	-	-	-	-	-
2 May	-	-	-	-	-	-
3 May	-	-	-	-	-	-
4 May	-	-	-	-	-	-
5 May	-	-	-	-	-	-
6 May	-	-	-	-	-	-
7 May	-	-	-	-	-	-
8 May	-	-	-	-	-	-
9 May	-	-	-	-	-	-
10 May	-	-	-	-	-	-
11 May	-	-	-	-	-	-
12 May	-	-	-	-	-	-
13 May	-	-	-	-	-	-
14 May	-	-	-	-	-	-
15 May	-	-	-	-	-	-
16 May	-	-	-	-	-	-
17 May	-	-	-	-	-	-
18 May	-	-	-	-	-	-
19 May	-	-	-	-	-	-
20 May	441	546	354	502	574	375
21 May	394	449	283	556	582	527
22 May	338	523	235	564	640	516
23 May	360	414	280	545	603	408
24 May	370	422	306	603	685	550
25 May	321	375	248	576	607	518
26 May	-	-	-	-	-	-
27 May	368	408	300	572	602	517
28 May	325	622	102	545	775	74
29 May	345	427	258	626	667	548
30 May	353	407	273	605	709	320
31 May	385	461	315	586	623	553

Unit 1 Boiler Emission Test Results

EPA Identification no. 3 - Air emissions monitoring, Boiler 1 stack discharge to air

Name	Reading	Units	Licence Limit	Date
Chlorine	<0.01	mg/m^3	20	20/04/2022
Fluorine	8.6	mg/m^3	30	20/04/2022
Hydrogen chloride	2.8	mg/m^3	50	20/04/2022
Solid Particles	3.5	mg/m^3	50	20/04/2022
Sulfuric acid mist and sulfur trioxide (as SO3)	1.7	mg/m^3	100	20/04/2022
Volatile organic compounds as n-propane equivalent	<0.05	mg/m^3	10	20/04/2022
Cadmium	<0.0002	mg/m^3	0.2	8/02/2022
Mercury	<0.0002	mg/m^3	0.05	8/02/2022
Solid Particles	<2	mg/m^3	50	8/02/2022
Type 1 and 2 substances in Aggregate	<0.02	mg/m^3	0.75	8/02/2022

EPA Identification no. 7 - Air emissions monitoring, Boiler 1 Exhaust Duct A

Name	Reading	Units	Licence Limit	Date
Flow Rate	220	m3/sec		20/04/2022
Moisture	5.6	%		20/04/2022
Oxygen	9.8	%		20/04/2022
Solid Particles	4.5	mg/m3		20/04/2022
Temperature	116	degC		20/04/2022
Carbon dioxide	10.3	%		20/04/2022
Chlorine	<0.01	mg/m3		20/04/2022
Fluorine	8.6	mg/m3		20/04/2022
Hydrogen chloride	2.8	mg/m3		20/04/2022
Sulfuric acid mist and sulfur trioxide (as SO3)	1.7	mg/m3		20/04/2022
Volatile organic compounds as n-propane equivalent	<0.05	mg/m3		20/04/2022
Cadmium	<0.0002	mg/m3		8/02/2022
Flow Rate	270	m3/sec		8/02/2022
Mercury	<0.0002	mg/m3		8/02/2022
Moisture	4.9	%		8/02/2022
Oxygen	8.3	%		8/02/2022
Solid Particles	3.8	mg/m3		8/02/2022
Temperature	114	degC		8/02/2022
Type 1 and Type 2 substances in Aggregate	<0.018	mg/m3		8/02/2022
Carbon dioxide	11.6	%		8/02/2022

EPA Identification no. 8 - Air emissions monitoring, Boiler 1 Exhaust Duct B

Name	Reading	Units	Licence Limit	Date
Flow Rate	270	m3/sec		20/04/2022
Moisture	4.1	%		20/04/2022
Oxygen	9.4	%		20/04/2022
Solid Particles	2.7	mg/m3		20/04/2022
Temperature	115	degC		20/04/2022
Carbon dioxide	11.2	%		20/04/2022
Cadmium	<0.0002	mg/m3		8/02/2022
Flow Rate	270	m3/sec		8/02/2022
Mercury	0.00024	mg/m3		8/02/2022
Moisture	4.4	%		8/02/2022
Oxygen	8.5	%		8/02/2022
Solid Particles	<0.8	mg/m3		8/02/2022
Temperature	110	degC		8/02/2022
Type 1 and Type 2 substances in Aggregate	<0.028	mg/m3		8/02/2022
Carbon dioxide	11.7	%		8/02/2022

Unit 2 Boiler Emission Test Results

EPA Identification no. 4 - Air emissions monitoring, Boiler 2 stack discharge to air

Name	Reading	Units	Licence Limit	Date
Chlorine	<0.008	mg/m^3	20	21/04/2022
Fluorine	11	mg/m^3	30	21/04/2022
Hydrogen chloride	3.1	mg/m^3	50	21/04/2022
Solid Particles	11	mg/m^3	50	21/04/2022
Sulfuric acid mist and sulfur trioxide (as SO3)	2.5	mg/m^3	100	21/04/2022
Volatile organic compounds as n-propane equivalent	<0.06	mg/m^3	10	21/04/2022
Cadmium	<0.0002	mg/m^3	0.2	8/02/2022
Mercury	0.00077	mg/m^3	0.05	8/02/2022
Solid Particles	2.4	mg/m^3	50	8/02/2022
Type 1 and 2 substances in Aggregate	<0.02	mg/m^3	0.75	8/02/2022

EPA Identification no. 9 - Air emissions monitoring, Boiler 2 Exhaust Duct A

Name	Reading	Units	Licence Limit	Date
Flow Rate	240	m3/sec		21/04/2022
Moisture	5.5	%		21/04/2022
Oxygen	8.9	%		21/04/2022
Solid Particles	9.7	mg/m3		21/04/2022
Temperature	125	degC		21/04/2022
Carbon dioxide	11.1	%		21/04/2022
Chlorine	<0.008	mg/m3		21/04/2022
Fluorine	11	mg/m3		21/04/2022
Hydrogen chloride	3.1	mg/m3		21/04/2022
Sulfuric acid mist and sulfur trioxide (as SO3)	2.5	mg/m3		21/04/2022
Volatile organic compounds as n-propane equivalent	<0.06	mg/m3		21/04/2022
Cadmium	<0.0002	mg/m3		8/02/2022
Flow Rate	250	m3/sec		8/02/2022
Mercury	0.0011	mg/m3		8/02/2022
Moisture	5.8	%		8/02/2022
Oxygen	8.5	%		8/02/2022
Solid Particles	0.97	mg/m3		8/02/2022
Temperature	126	degC		8/02/2022
Type 1 and Type 2 substances in Aggregate	<0.028	mg/m3		8/02/2022
Carbon dioxide	11.7	%		8/02/2022

EPA Identification no. 10 - Air emissions monitoring, Boiler 2 Exhaust Duct B

Name	Reading	Units	Licence Limit	Date
Flow Rate	250	m3/sec		21/04/2022
Moisture	4.1	%		21/04/2022
Oxygen	10.6	%		21/04/2022
Solid Particles	12	mg/m3		21/04/2022
Temperature	107	degC		21/04/2022
Carbon dioxide	9.7	%		21/04/2022
Cadmium	<0.0002	mg/m3		8/02/2022
Flow Rate	290	m3/sec		8/02/2022
Mercury	0.00048	mg/m3		8/02/2022
Moisture	4.8	%		8/02/2022
Oxygen	9.2	%		8/02/2022
Solid Particles	3.7	mg/m3		8/02/2022
Temperature	111	degC		8/02/2022
Type 1 and Type 2 substances in Aggregate	<0.018	mg/m3		8/02/2022
Carbon dioxide	10.9	%		8/02/2022

Unit 3 Boiler Emission Test Results

EPA Identification no. 5 - Air emissions monitoring, Boiler 3 stack discharge to air

Name	Reading	Units	Licence Limit	Date
Chlorine	<0.01	mg/m3	20	22/04/2022
Fluorine	10	mg/m3	30	22/04/2022
Hydrogen chloride	4.8	mg/m3	50	22/04/2022
Solid Particles	7.2	mg/m3	50	22/04/2022
Sulfuric acid mist and sulfur trioxide (as SO3)	2.5	mg/m3	100	22/04/2022
Volatile organic compounds as n-propane equivalent	0.45	mg/m3	10	22/04/2022
Cadmium	<0.0003	mg/m3	0.2	15/03/2022
Mercury	0.0004	mg/m3	0.05	15/03/2022
Solid Particles	4.6	mg/m3	50	15/03/2022
Type 1 and 2 substances in Aggregate	<0.02	mg/m3	0.75	15/03/2022

EPA Identification no. 11 - Air emissions monitoring, Boiler 3 Exhaust Duct A

Name	Reading	Units	Licence Limit	Date
Flow Rate	250	m3/sec		22/04/2022
Moisture	5.6	%		22/04/2022
Oxygen	9.3	%		22/04/2022
Solid Particles	7.8	mg/m3		22/04/2022
Temperature	109	degC		22/04/2022
Carbon dioxide	10.6	%		22/04/2022
Chlorine	<0.01	mg/m3		22/04/2022
Fluorine	10	mg/m3		22/04/2022
Hydrogen chloride	4.8	mg/m3		22/04/2022
Sulfuric acid mist and sulfur trioxide (as SO3)	2.5	mg/m3		22/04/2022
Volatile organic compounds as n-propane equivalent	0.45	mg/m3		22/04/2022
Cadmium	<0.0003	mg/m3		15/03/2022
Flow Rate	260	m3/sec		15/03/2022
Mercury	0.00048	mg/m3		15/03/2022
Moisture	7.8	%		15/03/2022
Oxygen	8.8	%		15/03/2022
Solid Particles	4.1	mg/m3		15/03/2022
Temperature	111	degC		15/03/2022
Type 1 and Type 2 substances in Aggregate	<0.015	mg/m3		15/03/2022
Carbon dioxide	11.8	%		15/03/2022

EPA Identification no. 12 - Air emissions monitoring, Boiler 3 Exhaust Duct B

Name	Reading	Units	Licence Limit	Date
Flow Rate	230	m3/sec		22/04/2022
Moisture	4.9	%		22/04/2022
Oxygen	8.3	%		22/04/2022
Solid Particles	6.6	mg/m3		22/04/2022
Temperature	115	degC		22/04/2022
Carbon dioxide	11.6	%		22/04/2022
Cadmium	<0.0004	mg/m3		15/03/2022
Flow Rate	230	m3/sec		15/03/2022
Mercury	0.00032	mg/m3		15/03/2022
Moisture	5.2	%		15/03/2022
Oxygen	8.6	%		15/03/2022
Solid Particles	5.1	mg/m3		15/03/2022
Temperature	113	degC		15/03/2022
Type 1 and Type 2 substances in Aggregate	<0.02	mg/m3		15/03/2022
Carbon dioxide	11.9	%		15/03/2022

Unit 4 Boiler Emission Test Results

EPA Identification no. 6 - Air emissions monitoring, Boiler 4 stack discharge to air

Name	Reading	Units	Licence Limit	Date
Chlorine	0.01	mg/m3	20	7/04/2021
Fluorine	13	mg/m3	30	7/04/2021
Hydrogen chloride	2.7	mg/m3	50	7/04/2021
Solid Particles	6.2	mg/m3	50	29/06/2021
Sulfuric acid mist and sulfur trioxide (as SO3)	2.7	mg/m3	100	7/04/2021
Volatile organic compounds as n-propane equivalent	<0.1	mg/m3	10	7/04/2021
Cadmium	<0.0002	mg/m3	0.2	9/02/2022
Mercury	0.00035	mg/m3	0.05	9/02/2022
Solid Particles	1.8	mg/m3	50	9/02/2022
Type 1 and 2 substances in Aggregate	<0.01	mg/m3	0.75	9/02/2022

EPA Identification no. 13 - Air emissions monitoring, Boiler 4 Exhaust Duct A

Name	Reading	Units	Licence Limit	Date
Flow Rate	500	m^3/sec		7/04/2021
Moisture	5.3	%		7/04/2021
Oxygen	10.4	%		7/04/2021
Solid Particles	9.5	mg/m^3		7/04/2021
Temperature	111	degC		7/04/2021
Carbon dioxide	10.4	%		7/04/2021
Chlorine	0.01	mg/m^3		7/04/2021
Fluorine	13	mg/m^3		7/04/2021
Hydrogen chloride	2.7	mg/m^3		7/04/2021
Sulfuric acid mist and sulfur trioxide (as SO3)	2.7	mg/m^3		7/04/2021
Volatile organic compounds as n-propane equivalent	<0.1	mg/m^3		7/04/2021
Cadmium	<0.0002	mg/m^3		9/02/2022
Flow Rate	320	m^3/sec		9/02/2022
Mercury	0.00041	mg/m^3		9/02/2022
Moisture	5.9	%		9/02/2022
Oxygen	7.4	%		9/02/2022
Solid Particles	1.5	mg/m^3		9/02/2022
Temperature	116	degC		9/02/2022
Type 1 and Type 2 substances in Aggregate	<0.015	mg/m^3		9/02/2022
Carbon dioxide	12.8	%		9/02/2022

EPA Identification no. 14 - Air emissions monitoring, Boiler 4 Exhaust Duct B

Name	Reading	Units	Licence Limit	Date
Flow Rate	400	m^3/sec		29/06/2021
Moisture	5.9	%		29/06/2021
Oxygen	6.9	%		29/06/2021
Solid Particles	2	mg/m^3		29/06/2021
Temperature	121	degC		29/06/2021
Carbon dioxide	13.4	%		29/06/2021
Cadmium	<0.0002	mg/m^3		9/02/2022
Flow Rate	300	m^3/sec		9/02/2022
Mercury	0.00029	mg/m^3		9/02/2022
Moisture	5.5	%		9/02/2022
Oxygen	5.9	%		9/02/2022
Solid Particles	2.2	mg/m^3		9/02/2022
Temperature	123	degC		9/02/2022
Type 1 and Type 2 substances in Aggregate	<0.014	mg/m^3		9/02/2022
Carbon dioxide	13.7	%		9/02/2022

Eraring Depositional Dust Gauges

EPA Identification no.17, 18, 19 & 20 - Depositional dust monitoring within 1km of the coal handling operations

Eraring Identification	EPA Identification No	Deposited Matter		
		g/m²/month		
		Ash	Combustible	Insoluble
E2	17	1.4	0.2	1.6
E4	18	0.2	0.2	0.4
E6	19	0.2	0.3	0.5
U6	20	0.7	0.2	0.9

Water Quality - Lake Monitoring LM10

EPA Identification no. 27 - The waters of Lake Macquarie located midway between cooling water inlet and Hungary Point

Air Temp	Depth	Water Temp	pH	Salinity	Dissolved Oxygen		Secchi
^{0}C	m	degC	pH unit	ppt	%	mg/L	m
19.96	0.50	21.12	7.78	14.7	108.4	8.64	2.00

Name	Reading	Units	Date
Aluminium	0.048	mg/L	2/05/2022
Ammonia	<0.005	mg/L	2/05/2022
Arsenic III	<0.004	mg/	2/05/2022
Arsenic V	<0.004	mg/L	2/05/2022
Cadmium	<0.0002	mg/L	2/05/2022
Chromium (Trivalent)	<0.001	mg/L	2/05/2022
Chromium (VI) Compounds	<0.01	mg/L	2/05/2022
Copper	0.002	mg/L	2/05/2022
Iron	0.058	mg/L	2/05/2022
Lead	<0.0002	mg/L	2/05/2022
Manganese	0.0184	mg/L	2/05/2022
Nickel	0.0006	mg/L	2/05/2022
pH	8.14	pH units	2/05/2022
Selenium	<0.002	mg/L	2/05/2022
Total Suspended Solids	5	mg/L	2/05/2022
Vanadium	0.0019	mg/L	2/05/2022
Zinc	<0.005	mg/L	2/05/2022

Water Quality - Lake Monitoring LM12

EPA Identification no. 29 - The waters of Lake Macquarie located at the Eraring/Vales Point mixing zone off Fishery Point

Air Temp	Depth	Water Temp	pH	Salinity	Dissolved Oxygen		Secchi
^{0}C	m	degC	pH unit	ppt	%	mg/L	m
18.68	0.50	21.20	7.76	14.6	108.6	8.59	2.75

Name	Reading	Units	Date
Aluminium	0.026	mg/L	2/05/2022
Ammonia	<0.005	mg/L	2/05/2022
Arsenic III	<0.004	mg/L	2/05/2022
Arsenic V	<0.004	mg/L	2/05/2022
Cadmium	<0.0002	mg/L	2/05/2022
Chromium (Trivalent)	<0.001	mg/L	2/05/2022
Chromium (VI) Compounds	<0.01	mg/L	2/05/2022
Copper	0.002	mg/L	2/05/2022
Iron	0.022	mg/L	2/05/2022
Lead	<0.0002	mg/L	2/05/2022
Manganese	0.0184	mg/L	2/05/2022
Nickel	<0.0005	mg/L	2/05/2022
pH	8.09	pH units	2/05/2022
Selenium	<0.002	mg/L	2/05/2022
Total Suspended Solids	<5	mg/L	2/05/2022
Vanadium	0.0022	mg/L	2/05/2022
Zinc	<0.005	mg/L	2/05/2022

Water Quality - Lake Monitoring LM4

EPA Identification no. 30 - The northern waters of Lake Macquarie east off Lake Macquarie Yacht Club

Air Temp	Depth	Water Temp	pH	Salinity	Dissolved Oxygen		Secchi
^{0}C	m	degC	pH unit	ppt	%	mg/L	m
16.87	0.50	19.90	7.78	15.4	97.6	7.90	3.25

Name	Reading	Units	Date
Aluminium	0.020	mg/L	2/05/2022
Ammonia	<0.005	mg/L	2/05/2022
Arsenic III	<0.004	mg/L	2/05/2022
Arsenic V	<0.004	mg/L	2/05/2022
Cadmium	<0.0002	mg/L	2/05/2022
Chromium (Trivalent)	<0.001	mg/L	2/05/2022
Chromium (VI) Compounds	<0.01	mg/L	2/05/2022
Copper	0.002	mg/L	2/05/2022
Iron	0.009	mg/L	2/05/2022
Lead	<0.0002	mg/L	2/05/2022
Manganese	0.0044	mg/L	2/05/2022
Nickel	<0.0005	mg/L	2/05/2022
pH	8.05	pH units	2/05/2022
Selenium	<0.002	mg/L	2/05/2022
Total Suspended Solids	<5	mg/L	2/05/2022
Vanadium	0.0018	mg/L	2/05/2022
Zinc	0.008	mg/L	2/05/2022

Water Quality - Lake Monitoring LM7

EPA Identification no. 28 - The waters of Lake Macquarie located off old Wangi power station inlet point in Myuna Bay

Air Temp	Depth	Water Temp	pH	Salinity	Dissolved Oxygen		Secchi
^{0}C	m	degC	pH unit	ppt	%	mg/L	m
18.51	0.5	23.81	7.57	15.1	96.9	7.35	2.25

Name	Reading	Units	Date
Aluminium	0.039	mg/L	2/05/2022
Ammonia	<0.005	mg/L	2/05/2022
Arsenic III	<0.004	mg/L	2/05/2022
Arsenic V	<0.004	mg/L	2/05/2022
Cadmium	<0.0002	mg/L	2/05/2022
Chromium (Trivalent)	<0.001	mg/L	2/05/2022
Chromium (VI) Compounds	<0.01	mg/L	2/05/2022
Copper	0.005	mg/L	2/05/2022
Iron	0.061	mg/L	2/05/2022
Lead	0.0002	mg/L	2/05/2022
Manganese	0.0388	mg/L	2/05/2022
Nickel	<0.0005	mg/L	2/05/2022
pH	7.96	pH units	2/05/2022
Selenium	<0.002	mg/L	2/05/2022
Total Suspended Solids	11	mg/L	2/05/2022
Vanadium	0.0018	mg/L	2/05/2022
Zinc	<0.005	mg/L	2/05/2022

Eraring Ash Dam Effluent Quality Monitoring

EPA Identification no. 22 - Discharge point below siphon pond weir at Ash Dam

Name	Reading	Units	Licence Limit	Date
Aluminium	0.398	mg/L	-	12/05/2022
Ammonia	0.72	mg/L	-	12/05/2022
Arsenic III	<0.0005	mg/L	-	12/05/2022
Arsenic V	0.0042	mg/L	-	12/05/2022
Cadmium	<0.00005	mg/L	-	12/05/2022
Chromium (Trivalent)	<0.001	mg/L	-	12/05/2022
Chromium (VI) Compounds	<0.01	mg/L	-	12/05/2022
Copper	0.0014	mg/L	-	12/05/2022
Iron	0.145	mg/L	-	12/05/2022
Lead	0.0004	mg/L	-	12/05/2022
Manganese	0.0803	mg/L	-	12/05/2022
Nickel	0.0014	mg/L	-	12/05/2022
Nitrite and Nitrate as N	1.86	mg/L	-	12/05/2022
Nitrogen	3.1	mg/L	-	12/05/2022
pH	8.54	pH units	-	12/05/2022
Phosphorus as P	0.20	mg/L	-	12/05/2022
Reactive Phosphorus as P	0.16	mg/L	-	12/05/2022
Selenium	0.0195	mg/L	-	12/05/2022
Total Kjeldahl Nitrogen	1.2	mg/L	-	12/05/2022
Total Suspended Solids	14	mg/L	-	12/05/2022
Vanadium	0.0254	mg/L	-	12/05/2022
Zinc	0.007	mg/L	-	12/05/2022

Eraring Cooling Water Inlet Canal

EPA Identification no. 31 - Inlet canal of the cooling water intake from Lake Macquarie

Name	Reading	Units	Licence Limit	Date
Aluminium	0.065	mg/L	-	12/05/2022
Ammonia	<0.005	mg/L	-	12/05/2022
Arsenic III	<0.004	mg/L	-	12/05/2022
Arsenic V	<0.004	mg/L	-	12/05/2022
Cadmium	<0.0002	mg/L	-	12/05/2022
Chromium (Trivalent)	<0.001	mg/L	-	12/05/2022
Chromium (VI) Compounds	<0.01	mg/L	-	12/05/2022
Copper	0.0013	mg/L	-	12/05/2022
Iron	0.106	mg/L	-	12/05/2022
Lead	<0.0002	mg/L	-	12/05/2022
Manganese	0.0318	mg/L	-	12/05/2022
Nickel	<0.0005	mg/L	-	12/05/2022
pH	7.88	pH units	-	12/05/2022
Selenium	<0.001	mg/L	-	12/05/2022
Total suspended Solids	6	mg/L	-	12/05/2022
Vanadium	0.0013	mg/L	-	12/05/2022
Zinc	<0.005	mg/L	-	12/05/2022
Dissolved Oxygen	18.67	mg/L	-	12/05/2022
Field Temperature	20.2	degC	-	12/05/2022
Salinity	15.5	ppt	-	12/05/2022
Secchi Disk	2.25	m	-	12/05/2022
Temperature – Average	20.36	deg C	-	May 2022
Temperature – Minimum	11.56	deg C	-	May 2022
Temperature - Maximum	24.50	deg C	-	May 2022

Eraring Cooling Water Outlet Canal

EPA Identification no. 21 - Cooling water outlet canal to Myuna Bay

Name	Reading	Units	Licence Limit	Date
Copper	0.0017	mg/L	0.005	12/05/2022
Iron	0.076	mg/L	0.3	12/05/2022
Selenium	<0.001	mg/L	0.002	12/05/2022
Temperature – Average	26.51	deg C	37.5	May 2022
Temperature – Minimum	21.38	deg C	37.5	May 2022
Temperature - Maximum	31.62	deg C	37.5	May 2022
Maximum Daily Discharge from Ash Dam	21.45	ML	150	May 2022
Monthly Discharge from Ash Dam	321.29	ML	-	May 2022

Emergency Discharge – Toe Drain Pond

EPA Identification no. 24 - Emergency discharge to toe drain collection pond
No Discharge during May 2022, background sample only

Name	Reading	Units	Licence Limit	Date
Aluminium	0.034	mg/L	-	12/05/2022
Ammonia	1.88	mg/L	-	12/05/2022
Arsenic III	0.0030	mg/L	-	12/05/2022
Arsenic V	0.0016	mg/L	-	12/05/2022
Cadmium	<0.00005	mg/L	-	12/05/2022
Chromium (Trivalent)	<0.001	mg/L	-	12/05/2022
Chromium (VI) Compounds	<0.01	mg/L	-	12/05/2022
Copper	<0.0005	mg/L	-	12/05/2022
Iron	9.12	mg/L	-	12/05/2022
Lead	<0.0001	mg/L	-	12/05/2022
Manganese	0.829	mg/L	-	12/05/2022
Nickel	0.0012	mg/L	-	12/05/2022
Nitrite and Nitrate as N	0.112	mg/L	-	12/05/2022
Nitrogen	2.13	mg/L	-	12/05/2022
pH	6.71	pH units	6-9.5	12/05/2022
Phosphorus as P	0.516	mg/L	-	12/05/2022
Reactive Phosphorus as P	0.019	mg/L	-	12/05/2022
Selenium	<0.0002	mg/L	-	12/05/2022
Total Kjeldahl Nitrogen	2.02	mg/L	-	12/05/2022
Total Suspended Solids	31	mg/L	50	12/05/2022
Vanadium	0.0008	mg/L	-	12/05/2022
Zinc	0.001	mg/L	-	12/05/2022

MR217

EPA Identification no. 23 - Emergency discharge from ash dam outlet at culvert

No Discharge during May 2022

Name	Reading	Units	Licence Limit	Date
Aluminium		mg/L	-	
Ammonia		mg/L	-	
Arsenic III		mg/L	-	
Arsenic V		mg/L	-	
Cadmium		mg/L	-	
Chromium (Trivalent)		mg/L	-	
Chromium (VI) Compounds		mg/L	-	
Copper		mg/L	-	
Iron		mg/L	-	
Lead		mg/L	-	
Manganese		mg/L	-	
Nickel		mg/L	-	
Nitrite and Nitrate as N		mg/L	-	
Nitrogen		mg/L	-	
pH		pH units	6-9.5	
Phosphorus as P		mg/L	-	
Reactive Phosphorus as P		mg/L	-	
Selenium		mg/L	-	
Total Kjeldahl Nitrogen		mg/L	-	
Total Suspended Solids		mg/L	50	
Vanadium		mg/L	-	
Zinc		mg/L	-	

Groundwater Monitoring
Groundwater Well – MW01

EPA Identification no. 32 – Groundwater Monitoring Well 01

Name	Reading	Units	Date
Aluminium	0.123	mg/L	9/03/2022
Ammonia	<0.01	mg/L	9/03/2022
Arsenic (III)	<0.0005	mg/L	15/03/2022
Arsenic (V)	<0.0005	mg/L	15/03/2022
Cadmium	<0.00005	mg/L	9/03/2022
Calcium	3	mg/L	9/03/2022
Chromium (trivalent)	<0.01	mg/L	9/03/2022
Chromium (VI) compounds	<0.01	mg/L	9/03/2022
Copper	0.0009	mg/L	9/03/2022
Electrical Conductivity	399	uS/cm	9/03/2022
Iron	0.137	mg/L	9/03/2022
Lead	0.0008	mg/L	9/03/2022
Magnesium	7	mg/L	9/03/2022
Manganese	0.138	mg/L	9/03/2022
Nickel	0.0050	mg/L	9/03/2022
pH	4.84	pH units	9/03/2022
Potassium	4	mg/L	9/03/2022
Selenium	<0.0002	mg/L	9/03/2022
Sodium	75	mg/L	9/03/2022
Standing Water Level	7.160	metres	9/03/2022
Vanadium	0.0002	mg/L	9/03/2022
Zinc	0.034	mg/L	9/03/2022

Groundwater Monitoring
Groundwater Well – MW02

EPA Identification no. 33 – Groundwater Monitoring Well 02

Name	Reading	Units	Date
Aluminium	0.686	mg/L	9/03/2022
Ammonia	5.44	mg/L	9/03/2022
Arsenic (III)	<0.0005	mg/L	15/03/2022
Arsenic (V)	<0.0005	mg/L	15/03/2022
Cadmium	<0.00005	mg/L	9/03/2022
Calcium	328	mg/L	9/03/2022
Chromium (trivalent)	<0.01	mg/L	9/03/2022
Chromium (VI) compounds	<0.01	mg/L	9/03/2022
Copper	0.0032	mg/L	9/03/2022
Electrical Conductivity	26500	uS/cm	9/03/2022
Iron	25.4	mg/L	9/03/2022
Lead	0.0022	mg/L	9/03/2022
Magnesium	475	mg/L	9/03/2022
Manganese	0.774	mg/L	9/03/2022
Nickel	0.0009	mg/L	9/03/2022
pH	6.35	pH units	9/03/2022
Potassium	165	mg/L	9/03/2022
Selenium	0.0006	mg/L	9/03/2022
Sodium	4820	mg/L	9/03/2022
Standing Water Level	3.900	metres	9/03/2022
Vanadium	0.0045	mg/L	9/03/2022
Zinc	0.031	mg/L	9/03/2022

Groundwater Monitoring
Groundwater Well – MW06

EPA Identification no. 34 – Groundwater Monitoring Well 06

Name	Reading	Units	Date
Aluminium	0.212	mg/L	9/03/2022
Ammonia	3.44	mg/L	9/03/2022
Arsenic (III)	0.0055	mg/L	15/03/2022
Arsenic (V)	<0.0005	mg/L	15/03/2022
Cadmium	<0.00005	mg/L	9/03/2022
Calcium	495	mg/L	9/03/2022
Chromium (trivalent)	<0.01	mg/L	9/03/2022
Chromium (VI) compounds	<0.01	mg/L	9/03/2022
Copper	0.0014	mg/L	9/03/2022
Electrical Conductivity	21000	uS/cm	9/03/2022
Iron	11.0	mg/L	9/03/2022
Lead	0.0004	mg/L	9/03/2022
Magnesium	282	mg/L	9/03/2022
Manganese	0.372	mg/L	9/03/2022
Nickel	0.0009	mg/L	9/03/2022
pH	6.53	pH units	9/03/2022
Potassium	125	mg/L	9/03/2022
Selenium	0.0004	mg/L	9/03/2022
Sodium	3580	mg/L	9/03/2022
Standing Water Level	1.265	metres	9/03/2022
Vanadium	0.0014	mg/L	9/03/2022
Zinc	0.009	mg/L	9/03/2022

Groundwater Monitoring
Groundwater Well – EGM/D26

EPA Identification no. 35 – Groundwater Monitoring Well D26
Groundwater well was dry during sampling in May 2022

Name	Reading	Units	Date
Aluminium	-	mg/L	-
Ammonia	-	mg/L	-
Arsenic (III)	-	mg/L	-
Arsenic (V)	-	mg/L	-
Cadmium	-	mg/L	-
Calcium	-	mg/L	-
Chromium (trivalent)	-	mg/L	-
Chromium (VI) compounds	-	mg/L	-
Copper	-	mg/L	-
Electrical Conductivity	-	uS/cm	-
Iron	-	mg/L	-
Lead	-	mg/L	-
Magnesium	-	mg/L	-
Manganese	-	mg/L	-
Nickel	-	mg/L	-
pH	-	pH units	-
Potassium	-	mg/L	-
Selenium	-	mg/L	-
Sodium	-	mg/L	-
Standing Water Level	-	metres	-
Vanadium	-	mg/L	-
Zinc	-	mg/L	-